

FIG.1A

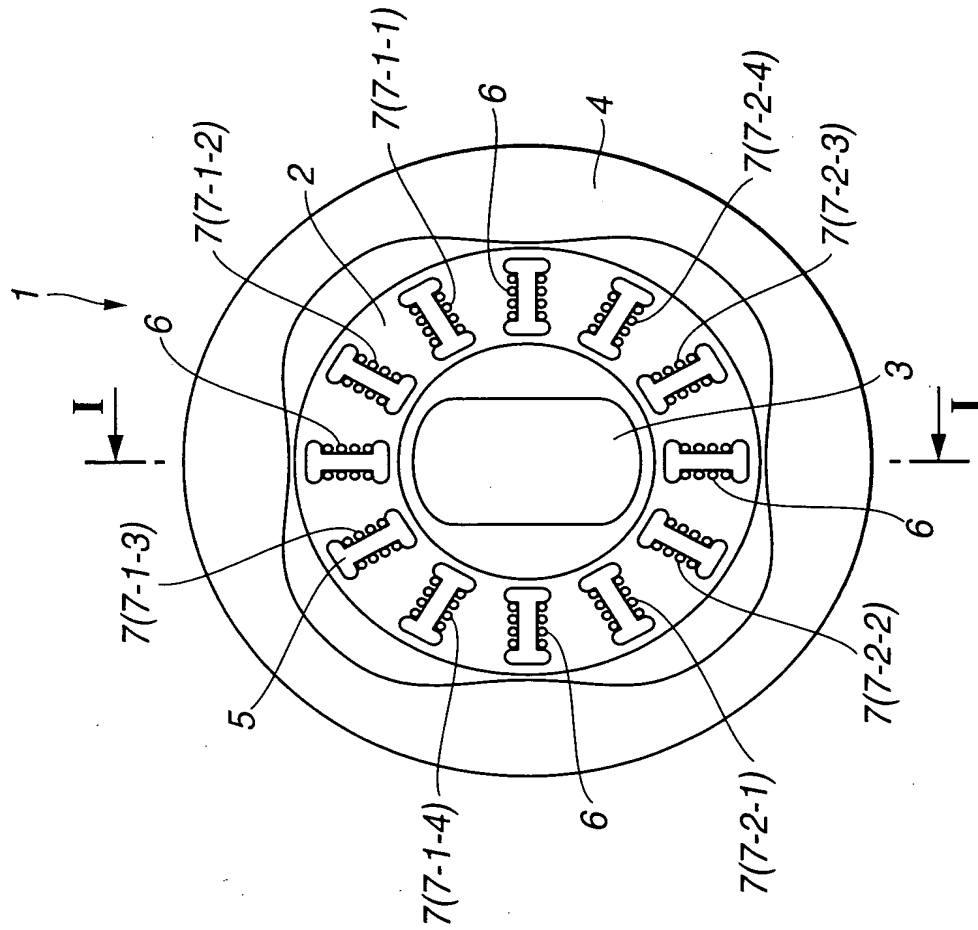


FIG.1B

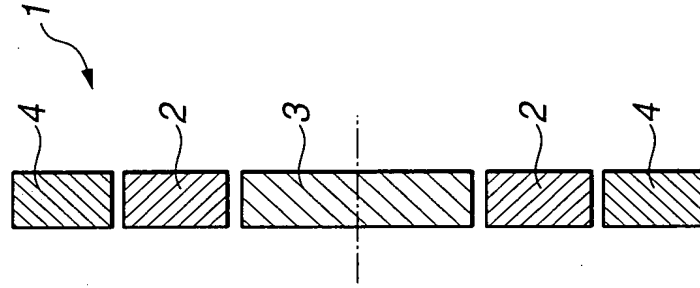


FIG.2

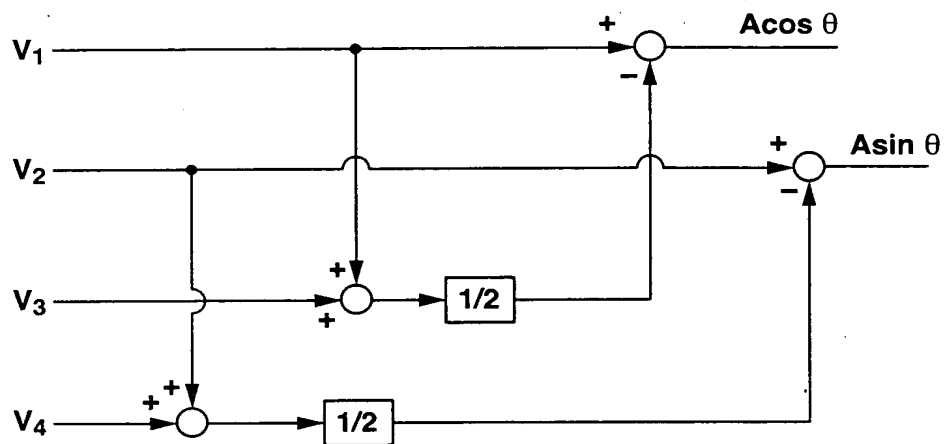


FIG.3

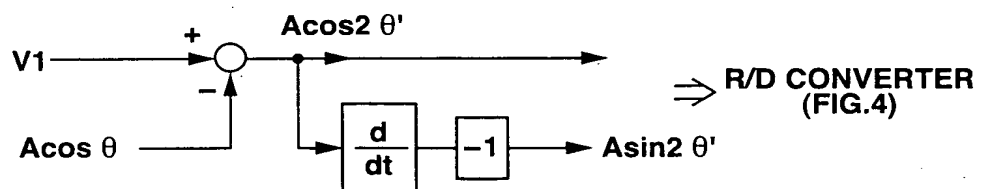


FIG.4

θ : RESOLVER REVOLUTION ANGLE
 ϕ : COUNTER OUTPUT VALUE
VCO : VOLTAGE CONTROLLED OSCILLATOR
A LOOP IS FORMED TO BECOME $\theta - \phi = 0$

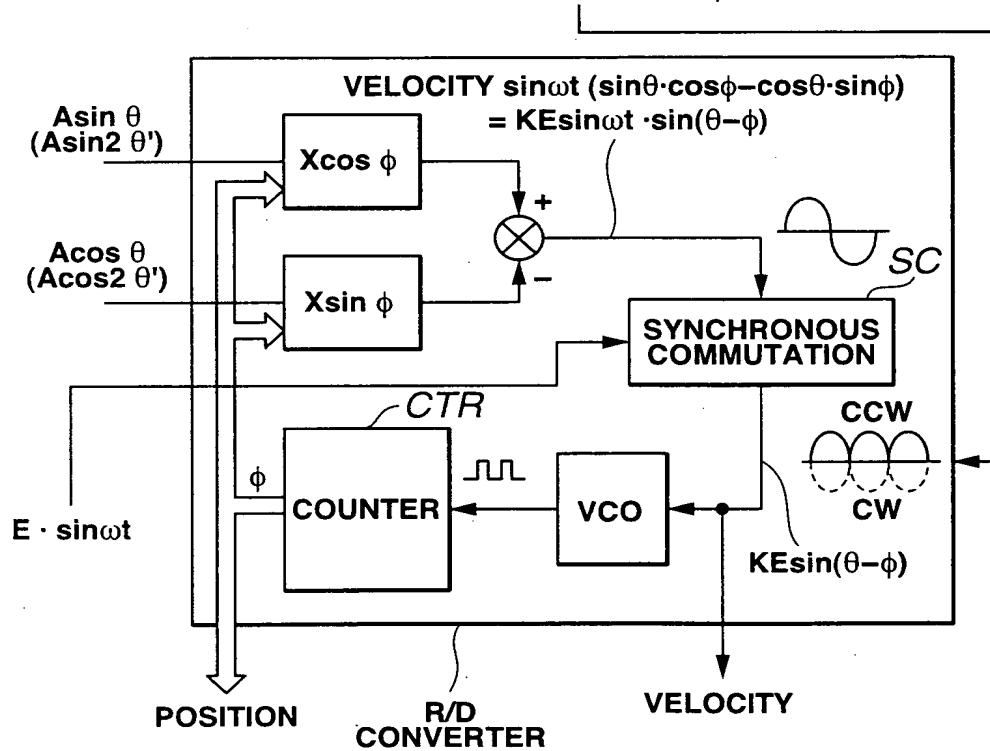
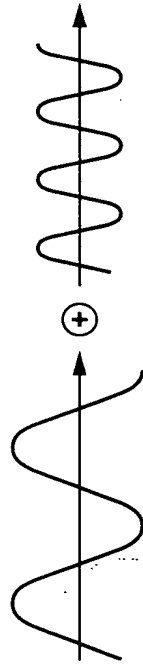


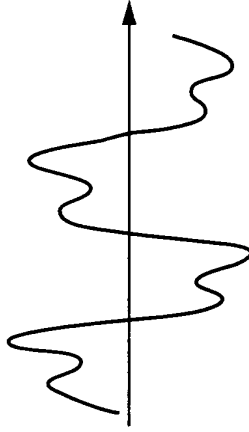
FIG.5A **FIG.5B**

WAVEFORM OF VOLTAGE V OF DETECTION WINDING 7-1-1



$$V_{10} = A \cos \theta$$

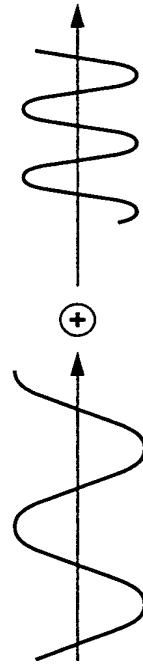
$$V_{11} = A \cos 2 \theta'$$



$$V_1 = A \cos \theta + A \cos 2 \theta'$$

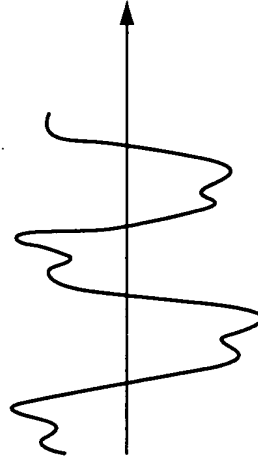
FIG.5C **FIG.5D**

WAVEFORM OF VOLTAGE V OF DETECTION WINDING 7-1-3



$$V_{30} = A \cos (\theta - 180)$$

$$V_{31} = A \cos 2 (\theta' - 180)$$



$$V_3 = A \cos (\theta - 180) + A \cos 2 (\theta' - 180)$$

FIG.6

